

Active Recombinant Human CD3E & CD3G Protein, FLAG-Fc & mFc-tagged

Cat. No. CD3E & CD3G-761H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain (Met1-Asp126) of human CD3E (NP_000724.1) was fused with the C-terminal FLAG-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Ser116) of human CD3G (NP_000064.1) was fused the Fc region of mouse IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3E/CD3G heterodimer was purified.
Species	Human
Source	HEK293
ProteinLength	Met1-Asp126 & Met1-Ser116
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	Measured by its ability to bind OKT3-mIgG2a in a functional ELISA.
Molecular Mass	The recombinant heterodimer of human CD3E/CD3G comprises 681 (353+328) amino acids and has a calculated molecular mass of 76.9 (39.8+37.1) KDa. As a result of glycosylation, the apparent molecular mass of human CD3E/CD3G heterodimer is approximately 42-47 KDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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